

EXPRESS MAIL NO. EV335394641US

Sheet 1 of 4

FORM PTO 101  
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

850136.402D1

APPLICATION NO.

10/617,317

APPLICANTS

Motohide Yamazaki et al.

FILING DATE

July 10, 2003

GROUP ART UNIT

1632

## INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	3915800	10/28/75	Kang et al.	195	31 P	
	AB	3960832	06/01/76	Kang et al.	536	123	
	AC	4326053	04/20/82	Kang et al.	536	123	
	AD	4342866	08/03/83	Kang et al.	536	119	
	AE	4401760	08/30/83	Peik et al.	435	101	
	AF	4963668	10/16/90	Allen et al.	536	114	
	AG	5300429	04/05/94	Baird et al.	435	101	
	AH	5338681	08/16/94	Deckwer et al.	435	252.1	
	AI	5602241	02/11/97	Maruyama et al.	536	127	
	AJ	5854034	12/29/98	Pollock et al.	435	101	

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	AK	EP 266163 A2	05/04/88	EPO		
	AL					
	AM					
	AN					
	AO					

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	AP	ATCC Catalogue of Bacteria and Bacteriophages, 19th edition, 1996, pp. 26, 68 and 295.
	AQ	Lobas et al., "Structure and Physical Properties of the Extracellular Polysaccharide PS-P4 Produced by Sphingomonas paucimobilis P4 (DSM 6418)," <i>Carbohydrate Research</i> , 251 (1994) 303-313.
	AR	Banik R. M. et al: "Exopolysaccharide of Gellan Family: Prospects and Potential." <i>World Journal Of Microbiology &amp; Biotechnology</i> , vol. 16, No. 5, Jul. 2000 (2000-07), pp. 407-414, ISSN: 0959-3993.

EXAMINER

DATE CONSIDERED

\* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).

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FORM PTO-1449 (REV. 7-80)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. <b>850136.402D1</b>	APPLICATION NO. <b>10/617,317</b>	
<b>INFORMATION DISCLOSURE STATEMENT</b> (Use several sheets if necessary)				APPLICANTS <b>Motohide Yamazaki et al.</b>		
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*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	BA	5985623	11/16/99	Pollock et al.	435	101
	BB	6027925	02/22/00	Pollock et al.	435	104
	BC	6030817	02/29/00	Pollock et al.	435	104
	BD	6066479	05/23/00	Wright et al.	435	101
	BE					
<b>FOREIGN PATENT DOCUMENTS</b>						
	DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION		
				YES	NO	
	BF					
	BG					
<b>OTHER PRIOR ART</b> <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>						
	BH	Jay A. J. et al: "Analysis of Structure and Function of Gallans with Different Substitution Patterns." Carbohydrate Polymers, vol. 35, No. 3-4. Mar. 4, 1998 (1998-03-04), pp. 179-188, ISSN: 0144-8617.				
	BI	Pollock T. J. et al: "Planktonic/Sessile Dimorphism of Polysaccharide-Encapsulated Sphingomonads." <i>Journal Of Industrial Microbiology And Biotechnology</i> , vol. 23, No. 4/5. 1999, pp. 436-441, XP0010303946, ISSN: 1367-5435.				
	BJ	Manna B. Et al, "Production and Rheological Characteristics of the Microbial Polysaccharide Gellan." <i>Letters In Applied Microbiology</i> , vol. 23, No. 3, 1996, pp. 141-145, XP001031116, ISSN: 0266-8254.				
	BK	Baird et al., "Industrial Applications of Some New Microbial Polysaccharides," <i>Biotechnology</i> , Nov. 1983, pp. 778-783.				
	BL	Fialho et al., "Structures and Properties of Gellan Polymers Produced by Sphingomonas paucimobilis AATCC 31461 form Lactose Compared with Those Produced from Glucose and from Cheese Whey", <i>AEM</i> , vol. 65, No. 6, Jun. 1999, pp. 2485-2491.				
	BM	Harding et al., "Isolation of Genes Essential for the Biosynthesis of Gellan Gum," <i>The FASEB Journal</i> , vol. 7, No. 7, May 1993, p. A1259.				
	BN	Jansson et al., "Structural Studies of Gellan Gum, an Extracellular Polysaccharide Elaborated by Pseudomonas elodea," <i>Carbohydrate Research</i> , 124, 1983, pp. 135-139.				
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ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /S.M./

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	CA						
<b>FOREIGN PATENT DOCUMENTS</b>							
		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION		
					YES	NO	
	CB						
<b>OTHER PRIOR ART</b> (Including Author, Title, Date, Pertinent Pages, Etc.)							
	CC	Kang et al., "A New Bacterial Heteropolysaccharide," Extracellular Microbial Polysaccharides, 1977, pp. 220-230.					
	CD	Kang et al., "Agar-Like Polysaccharide Produced by a Pseudomonas Species: Production and Basic Properties," <i>AEM</i> , vol. 43, No. 3, 1982, pp. 1086-1091.					
	CE	Kang et al., "Some Novel Bacterial Polysaccharides of Recent Development," <i>Progress in Industrial Microbiology</i> , vol. 18, 1983, pp. 231-253.					
	CF	Kelco Biopolymer Product Information, "Products Gellan Gum", Feb. 2000.					
	CG	Kuo et al., "Isolation and Location of L-Glycerate, an Unusual Acyl Substituent in Gellan Gum," <i>Carbohydrate Research</i> , 156, 1986, pp. 173-187.					
	CH	Moorhouse et al., "PS-60: A New Gel-Forming Polysaccharide," Solution Properties of Polysaccharides, 1981, pp. 111-124.					
	CI	Moorhouse, "Structure/Property Relationships of a Family of Microbial Polysaccharides," Industrial Polysaccharides: Genetic Engineering, Structure/Property Relations and Applications, 1987, pp. 187-206.					
	CJ	Nussinovitch, "Gellan Gum," Hydrocolloid Applications, 1997, pp. 63-82. Pollock, "Gellan-related Polysaccharides and the genus Sphingomonas," <i>J. of Gen Microbiol.</i> , vol. 139, 1993, pp. 1939-1945.					
	CK	Pollock et al., "Planktonic/sessile Dimorphism of Polysaccharide-Encapsulated Sphingomonads," <i>JIMB</i> , vol. 23, 1999, pp. 436-441.					
	CL	Pollock et al., "Production of Xanthan Gum by Sphingomonas bacteria Carrying Genes from Xanthomonas campestris," <i>JIMB</i> , vol. 19, 1997, pp. 92-97.					
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					YES	NO	
	DB						
<b>OTHER PRIOR ART</b> (Including Author, Title, Dore, Pertinent Pages, Etc.)							
	DC	Pollock et al., "Mechanism of Bacitracin Resistance in Gram-Negative Bacteria That Synthesize Exopolysaccharides," <i>J. of Bacteriol.</i> , vol. 176, No. 20, 1994, pp. 6229-6237.					
	DD	Pollock et al., "Assignment of Biochemical Functions to Glycosyl Transferase Genes Which are Essential for Biosynthesis of Exopolysaccharides in Sphingomonas Strain S88 and Rhizobium leguminosarum," <i>J. of Bacteriol.</i> , vol. 180, No. 3, 1998, pp. 586-593.					
	DE	Thorne et al., "Increasing the Yield and Viscosity of Exopolysaccharides Secreted by Sphingomonas by Augmentation of Chromosomal Genes with Multiple Copies of Cloned Biosynthetic Genes," <i>JIMB</i> , vol. 25, 2000, pp. 49-57.					
	DF	Vartak et al., "Glucose Metabolism in 'Sphingomonas elodea': pathway engineering via construction of a glucose-6-phosphate dehydrogenase insertion mutant," <i>Microbiology</i> , vol. 141, 1995, pp. 2339-2350.					
	DG	Videira et al., "Identification of the pgmG Gene, Encoding a Bifunctional Protein with Phosphoglucumutase and Phosphomannomutase Activities, in the Gellan Gum-Producing Strain Sphingomonas paucimobilis ATCC 31461," <i>Appl. Environ Microbiol.</i> , vol. 66, No. 5, 2000, pp. 2252-2258.					
	DH	Yamazaki et al., "Linkage of Genes Essential for Synthesis of a Polysaccharide Capsule in Sphingomonas Strain S88," <i>J. Bacteriol.</i> , vol. 178, No. 9, 1996, pp. 2676-2687.					
	DI						
	DJ						
	DK						
	DL						
EXAMINER /Sheridan Macauley/				DATE CONSIDERED 03/19/2008			
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